



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460**

Office of Chemical Safety and Pollution Prevention

MEMORANDUM

Date: September 17, 2020

Subject: **Difenoconazole.** Acute and Chronic Aggregate Dietary (Food + Water) Exposure and Risk Assessments for the Registration Review of Difenoconazole.

PC Code: 128847	DP Barcodes: D457339
Decision Nos.: 557780 & 562309	Registration Nos.: NA
Petition Nos.: 0E8834 & 9E8814	Regulatory Action: Import Tolerance
Assessment Type: Single Chemical, Dietary	Registration Case No.: 7014
TXR No.: None	CAS No.: 119446-68-3
MRID No.: None	40 CFR: 180.475

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Executive Summary

Difenoconazole acute and chronic dietary exposure and risk assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID) Version 3.16. This software uses 2003-2008 food consumption data from the U.S. Department of Agriculture's (USDA's) National Health and Nutrition Examination Survey,

What We Eat in America (NHANES/WWEIA). The analyses were performed to support the Registration Review of the fungicide difenoconazole [1-[2-[2-chloro-4-(4-chlorophenoxy) phenyl]-4-methyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole].

This memorandum was reviewed by two peer reviewers of the DESAC, per the DESAC Standard Operating Procedure (SOP, 20-Jan-2020).

The unrefined acute analysis assumed tolerance-level residues, 100% crop treated (CT), and the available empirical or HED's 2018 Default Processing Factors. The partially refined chronic analysis assumed tolerance-level residues, the available empirical or HED's 2018 Default Processing Factors, and average % CT information for some commodities. The peak estimated drinking water concentration (EDWC) of 33.4 µg/L (ppb) was used for the acute dietary exposure analysis and a mean EDWC of 27.4µg/L (ppb) was used for the chronic dietary exposure analysis.

The resulting acute food plus water dietary exposure estimates were less than HED's level of concern (<100% of the acute population-adjusted dose (aPAD)) at the 95th percentile of the exposure distribution for the general U.S. population (17% aPAD) and all population subgroups. The most highly exposed population subgroup was all infants <1 year old at 53% aPAD.

The resulting chronic food plus water dietary exposure estimates were less than HED's level of concern (<100% of the chronic population-adjusted dose (cPAD)) for the general U.S. population (11% cPAD) and all population subgroups. The most highly exposed population subgroup was all infants <1 year old at 38% cPAD. No cancer analysis was performed since it was determined the chronic dietary exposure assessment is protective of cancer effects.

The dietary exposure analyses for the triazole metabolites were updated (D458686, T. Morton, 14-September-2020).

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the PAD. The PAD is equivalent to the point of departure (POD) divided by all applicable uncertainty factors, including the FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 21-JUN-2000, web link: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2007-0780-0001>; or see SOP 99.6 (20-AUG-1999).

The most recent dietary risk assessment for difenoconazole was conducted by T. Morton (14-September-2020; D457341).

II. Residue Information

Difenoconazole tolerances are published in 40 CFR§180.475.

Residues of Concern in Plants and Livestock:

Residues of concern were determined based on recommendations from the HED Residues of Concern Knowledgebase Sub-committee (ROCKS) (D391350, 9/19/11). The residue of concern in plant commodities for tolerance expression and risk assessment purposes is difenoconazole *per se*. The HED ROCKS has determined that the parent compound and the CGA-205375 metabolite are the residues of concern in livestock commodities for both the tolerance expression and the risk assessment. In addition, metabolite OH-CGA-169374, which comprised 15% of the Total Radioactive Residue (TRR) in goat milk, should be considered as a residue of concern for the dietary risk assessment. Based on available goat metabolism data in milk, total residues of concern for dietary risk assessments, should be calculated by multiplying the tolerance in milk by a factor of 1.5x to account for the metabolite OH-CGA-169374. Table 1 summarizes the residues of concern for tolerance expression and risk assessment in plant and livestock commodities, and for risk assessment in drinking water.

Table 1. Difenoconazole Residues of Concern in Plants and Ruminants.

Matrix		Residues of Concern	
		For Risk Assessment	For Tolerance Expression
Plants	Primary and Rotational crops	Parent Only	Parent Only
Livestock	Ruminant (tissue), Poultry, and egg	Parent and CGA 205375	Parent and CGA 205375
	Milk	Parent, CGA 205375, and OH-CGA-169374	Parent and CGA 205375
Drinking Water		Parent Only	NA

Note: The triazole-containing metabolites 1,2,4-T, TA, and TAA should be included in the residues of concern for risk assessment purposes only for plant and livestock commodities. Since these metabolites are common to the entire class of triazole-derivative fungicides and because of differential toxicity between metabolites and the various parent compounds, risks associated with exposure to 1,2,4-T and to TA/TAA are addressed separately.

Recommended Tolerances: Based on the residue chemistry data submitted with the previous petitions, HED recommended for establishment of the new food tolerances (D450713, B. Cropp-Kohllgian, 10/30/2019). The recommended, established, and revised tolerances are listed in Table 2 below. **In addition, a tolerance without US registration was requested on Japanese persimmon of 0.7 ppm, black pepper at 0.1 ppm, and olive at 3 ppm.**

Table 2. Tolerance Summary for Difenoconazole.

Commodity	Proposed/Established Tolerances (ppm)	Recommended Tolerances (ppm)
Banana/plantain	0.2	
Barley, grain	0.1	
Black pepper	0.1	0.1
Brassica subgroup 5A	2	
Brassica subgroup 5B	35	
Brassica, leafy greens, subgroup 4-16B	35	
Bushberry subgroup 13-07B	4	
Cattle fat	0.1	
Cattle, liver	0.7	

Cattle, meat	0.05	
Cattle, meat byproducts, except liver	0.1	
Citrus oil	25	
Corn, sweet, kernel plus cob with husks removed	0.01	
Cottonseed subgroup 20C	0.4	
Cranberry	0.6	
Egg	0.02	
Fruit, citrus, group 10	0.6	0.8
Fruit, Pome, group 11	5	
Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F	3	
Fruit, stone, group 12-12	2.5	
Globe Artichoke	1.5	
Goat, fat	0.1	
Goat, liver	0.7	
Goat, meat	0.05	
Goat, meat byproducts (except liver)	0.1	
Grape	3	
Grape, raisin	6	
Guava	3	
Hog, fat	0.1	
Hog, liver	0.7	
Hog, meat	0.05	
Hog, meat byproducts (except liver)	0.1	
Horse, liver	0.7	
Horse, meat	0.05	
Japanese persimmon	0.7	0.7
Kohlrabi	2	
Mango	0.07	0.9
Milk	0.03	
Nut, tree, group 14-12	0.03	
Oat, grain	0.01	
Olive	3	3
Onion, bulb, subgroup 3—07A	0.2	
Onion, green, subgroup 3—07B	6	9
Papaya	0.6	
Pea and bean, dried shelled, except soybean, subgroup 6C	0.2	
Rapeseed crop subgroup 20A	0.1	0.15
Rice, grain	7	8
Rice, Wild, grain	7	8
Rye, grain	0.01	
Sheep, fat	0.1	
Sheep, liver	0.7	
Sheep, meat	0.05	
Sheep, meat byproducts (except liver)	0.1	
Soybean, seed	0.15	
Strawberry	2.5	
Tea, dried	15	
Turnip greens	35	

Vegetable, brassica, head and stem, group 5-16	2	
Vegetable, cucurbit, group 9	0.7	
Vegetable, Fruiting, Group 8-10	0.6	
Vegetable, leaves of root and tuber, group 2	8	
Vegetable, root, subgroup 1A	0.6	
Vegetable, Tuberous and Corm, subgroup 1C	4	
Wheat, grain	0.1	

The dietary exposure analyses for the triazole metabolites were updated (D458686, T. Morton, 14-September-2020).

Food Residues and processing factors used in the Acute and Chronic Analysis: The acute analysis assumed tolerance-level residues and 100% CT for all the registered and proposed crops. Tolerance-level residues were also assumed for all livestock commodities in this assessment. The chronic analysis assumed tolerance-level residues and % CT assumption for some commodities. Experimental processing factors were used for apple/pear juice (0.04x), dried plums (2.6x), citrus juices (0.1x), grape juice (acute: 0.2x; PDP juice data used in chronic so PF set to 1), potato chips (0.5x), potato granules/flakes/flour (0.5x), sugar beet molasses (0.6x), tomato paste (1.6x), and tomato puree (0.5x); HED's 2018 Default Processing Factors were assumed for other processed commodities.

Residues in Fish: The USDA Pesticide Data Program (PDP) monitored pesticide residues in catfish in 2008, 2009, and 2010 and salmon in 2013 and 2014. In general, pesticide residues would not be expected to be found in fish unless the pesticide bio accumulates or has an aquatic use. To determine whether or not residues are present in fish, HED now routinely checks PDP monitoring data regardless of the pesticide's uses and physicochemical properties. Over this 5 year period, PDP analyzed 1459 samples of catfish and 88 samples of salmon for difenoconazole residues. None of the samples contained detectable residues. As a result, residues in fish were not included in the assessment.

III. Percent Crop Treated Information

The acute dietary exposure analyses assumed 100% crop treated (CT). Average %CT was used in the chronic dietary exposure analysis for the following crops: almond 15%, apples 20%, apricot 10%, artichoke 15%, blueberry 10%, broccoli 2.5%, cabbage 10%, cantaloupe 2.5%, carrot 2.5%, cauliflower 2.5%, cherry 2.5%, cucumbers 5%, garlic 5%, grapefruit 10%, grape 25%, hazelnut 2.5%, lemon 5%, onions 5%, orange 5%, peach 5%, pear 10%, pecan 5%, peppers 10%, pistachio 5%, plum/prune 5%, potato 15%, pumpkin 5%, soybean 2.5%, squash 5%, strawberry 2.5%, sugar beets 20%, tangerine 5%, tomato 35%, walnut 5%, watermelon 10%, and wheat 10%. For other commodities 100% CT was used.

IV. Drinking Water Data

The drinking water estimates used in the dietary risk assessment were provided by the Environmental Fate and Effects Division (EFED; Memo, F. Khan, 11-August-2017; D435066).

EFED will not conduct new drinking water exposure or ecological risk assessments for difenoconazole for this request. The reason is that the proposed new uses are not likely to substantially increase exposure estimates beyond that of currently registered uses on potatoes and sugar beets. For surface water, the recommended EDWCs for human health are **33.4 µg/L (ppb)** for the acute dietary (food plus water) exposure analysis and **27.4 µg/L (ppb)** for the chronic dietary (food plus water) exposure analysis (1-in-10 year annual mean).

Table 4. Maximum EDWCs for Difenoconazole Residues of Concern			
Source	Peak Exposure (µg/L)	Annual Mean Exposure (µg/L)	30-year Average Exposure (µg/L)
Surface water	33.4 ^A	27.4 ^A	9.9 ^B
Groundwater ^C	2.0	0.60	0.60

^A EDWCs generated using Tier 1 Rice model for aerial application of 0.244 lbs a.i./A/Y for rice/wild rice use and the release of irrigation or flooded paddy water for 7 days after the last application (USEPA, 2016 D 432384)

^B EDWCs generated using the Surface Water Concentration Calculator (SWCC) model for aerial application of 0.46 lbs a.i./A/Y for grape use as recommended in previous drinking water assessments (USEPA, 2014).

^C Groundwater EDWCs are based on the PWC (PRZM-GW module) 100 years simulation for FL citrus scenario and the highest difenoconazole application rate of 0.50 lb a.i./A/Y for citrus (USEPA, 2016 D 432384)

V. DEEM-FCID Program and Consumption Information

Difenoconazole acute and chronic dietary exposure assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database DEEM-FCID, Version 3.16, which incorporates consumption data from USDA's National Health and Nutrition Examination Survey, What We Eat in America, (NHANES/WWEIA). This dietary survey was conducted from 2003 to 2008. The data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g. apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups, but for acute exposure assessment are retained as individual consumption events. Based on analysis of the 2003-2008 WWEIA consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50-99 years old.

For chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form. The resulting residue consumption estimate for each food/food form is summed with the residue consumption estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

For acute exposure assessments, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic exposure assessment, or “matched” in multiple random pairings with residue values and then summed in a probabilistic assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (*i.e.*, those who reported eating relevant commodities/food forms) and a per-capita (*i.e.*, those who reported eating the relevant commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for analyses performed at all levels of refinement. However, for deterministic assessments, any significant differences in user vs. per capita exposure and risk are specifically identified and noted in the risk assessment.

VI. Toxicological Information

The relevant endpoints used in dietary exposure analysis are shown in Table 5.

Table 5. Summary of Toxicological Doses and Endpoints for Difenoconazole for Use in Dietary Risk Assessments.				
Exposure Scenario	Point of Departure	Uncertainty/FQPA Safety Factors	RfD, PAD, for Risk Assessment	Study and Relevant Toxicological Effects
Acute Dietary (All populations)	NOAEL = 25 mg/kg	UF _A = 10X UF _H = 10X FQPA SF = 1X	aRfD = aPAD = 0.25 mg/kg/day	Acute Neurotoxicity Study in Rats LOAEL = 200 mg/kg/day based on decreased fore-limb strength and increased motor activity at the time of peak effect in males.
Chronic Dietary (All populations)	NOAEL = 4.7 mg/kg/day	UF _A = 10X UF _H = 10X FQPA SF = 1X	Chronic RfD = cPAD = 0.05 mg/kg/day	Carcinogenicity in mouse (MRID 42090015) LOAEL = 46 mg/kg/day based on increased incidence of liver lesions (individual cell necrosis and bile stasis in males, hepatocyte hypertrophy in both sexes), and increased serum levels of SDH in males.
Cancer (oral, dermal, inhalation)	Difenoconazole is classified as a Group C, possible human carcinogen with a non-linear (MOE) approach for human risk characterization (CPRC Document, 7/27/94, Memo, P. V. Shah dated March 1, 2007, TXR No. 0054532). The chronic dietary exposure assessment is protective of cancer effects.			

Point of Departure (POD) = A data point or an estimated point that is derived from observed dose-response data and used to mark the beginning of extrapolation to determine risk associated with lower environmentally relevant human exposures. NOAEL = no observed adverse effect level. LOAEL = lowest observed adverse effect level. UF = uncertainty factor. UF_A = extrapolation from animal to human (interspecies). UF_H = potential variation in sensitivity among members of the human population (intraspecies). FQPA SF = FQPA Safety Factor. PAD = population adjusted dose (a = acute, c = chronic). RfD = reference dose.

VII. Results/Discussion

As stated above, for acute and chronic assessments, HED is concerned when dietary risk exceeds 100% of the aPAD or cPAD, respectively.

Acute and chronic aggregate dietary (food + water) analyses were performed using DEEM-FCID estimating the dietary exposure of the U.S. population and various population subgroups. The results are summarized in Tables 6 and 7 below for acute and chronic analyses, respectively.

The resulting acute food and drinking water exposure estimates were less than HED's level of concern (<100% aPAD) at the 95th percentile of the exposure distribution for general US population (17% aPAD) and all population subgroups. The most highly exposed population subgroup was all infants <1 year old at 53% aPAD.

Table 6. Summary of Acute Dietary (Food plus Water) Exposure and Risk for Difenoconazole at the 95th Percentile.			
Population Subgroup	aPAD (mg/kg/day)	Exposure (mg/kg/day)	%aPAD
General U.S. Population	0.25	0.042359	17
All Infants (< 1 year old)		0.131936	53
Children 1-2 years old		0.112997	45
Children 3-5 years old		0.081013	32
Children 6-12 years old		0.052516	21
Youth 13-19 years old		0.027298	11
Adults 20-49 years old		0.030956	12
Adults 50-99 years old		0.030521	12
Females 13-49 years old		0.030192	12

The bolded %aPAD is the highest.

The resulting chronic food and drinking water exposure estimates were less than HED's level of concern (<100% cPAD) for the general U.S. population (11% cPAD) and all population subgroups. The most highly exposed population subgroup was all infants <1 year old at 38% cPAD. A separate cancer dietary assessment was not conducted for difenoconazole because the cancer NOAEL is higher than the chronic RfD; therefore, the chronic dietary risk estimate is considered protective of all chronic effects including carcinogenicity.

Table 7. Summary of Chronic Dietary (Food plus Water) Exposure and Risk for Difenoconazole.			
Population Subgroup	cPAD (mg/kg/day)	Exposure (mg/kg/day)	%cPAD
General U.S. Population	0.05	0.005621	11
All Infants (< 1 year old)		0.019013	38
Children 1-2 years old		0.014993	30
Children 3-5 years old		0.010602	21
Children 6-12 years old		0.006441	13
Youth 13-19 years old		0.003797	7.6

Table 7. Summary of Chronic Dietary (Food plus Water) Exposure and Risk for Difenoconazole.

Population Subgroup	cPAD (mg/kg/day)	Exposure (mg/kg/day)	%cPAD
Adults 20-49 years old		0.004948	9.9
Adults 50-99 years old		0.004707	9.4
Females 13-49 years old		0.00297	8.6

The bolded %cPAD is the highest.

VIII. Characterization of Inputs/Outputs

The acute analysis assumed tolerance-level residues, 100% CT, and empirical or HED's 2018 Default Processing Factors. The chronic analysis assumed tolerance-level residues, average % CT, and empirical or HED's 2018 default processing factors. Therefore, the chronic analysis is considered partially refined. While the acute analysis could be refined, and the chronic analysis could be further refined, these refinements are not warranted as estimated risks are not of concern. Kale, collards, and pears are the major risk drivers in the acute dietary exposure analysis. Rice, sweet potato, and apples are the major risk drivers in the chronic dietary exposure analysis.

IX. Conclusions

Acute and chronic aggregate (food + water) dietary risk assessments were conducted for difenoconazole. The resulting acute food and drinking water exposure estimates were less than HED's level of concern (<100% aPAD) at the 95th percentile of the exposure for general US population and all population subgroups. The resulting chronic food and drinking water exposure estimates were less than HED's level of concern (<100% cPAD) for the general U.S. population and all population subgroups. HED is confident that the assessment does not underestimate risk to the general U.S. population or any population subgroup.

X. List of Attachments

- Attachment 1: DEEM-FCID™ Acute Residue File
- Attachment 2: DEEM-FCID™ Acute Exposure Estimates
- Attachment 3: DEEM-FCID™ Chronic Residue File
- Attachment 4: DEEM-FCID™ Chronic Exposure Estimates
- Attachment 5: Percent Crop Treated Memorandum

Attachment 1: DEEM-FCID Acute Residue File

Filename: C:\Users\tmorton\OneDrive - Environmental Protection Agency (EPA)\DEEM Files\128847 Difenoconazole\Diffenoconazole 9E8814 Olive Black Pepper and DRA\128847 Acute Food and Water without imports.R08

Chemical: Difenoconazole

RfD(Chronic): .05 mg/kg bw/day NOEL(Chronic): 0 mg/kg bw/day

RfD(Acute): .25 mg/kg bw/day NOEL(Acute): 0 mg/kg bw/day

Date created/last modified: 09-17-2020/08:34:25 Program ver. 3.16, 03-08-d

EPA Code	Crop Grp	Commodity Name	Def Res (ppm)	Adj. Factors #1	Adj. Factors #2	Comment
0101050000	1AB	Beet, garden, roots	0.600000	1.000	1.000	
0101050001	1AB	Beet, garden, roots-babyfood	0.600000	1.000	1.000	
0101052000	1A	Beet, sugar	0.600000	1.000	1.000	
0101052001	1A	Beet, sugar-babyfood	0.600000	1.000	1.000	
0101053000	1A	Beet, sugar, molasses	0.600000	0.600	1.000	
0101053001	1A	Beet, sugar, molasses-babyfood	0.600000	0.600	1.000	
0101067000	1AB	Burdock	0.600000	1.000	1.000	
0101078000	1AB	Carrot	0.600000	1.000	1.000	
0101078001	1AB	Carrot-babyfood	0.600000	1.000	1.000	
0101079000	1AB	Carrot, juice	0.600000	1.400	1.000	
0101084000	1AB	Celeriac	0.600000	1.000	1.000	
0101100000	1AB	Chicory, roots	0.600000	1.000	1.000	
0101168000	1AB	Ginseng, dried	0.800000	1.000	1.000	
0101190000	1AB	Horseradish	0.600000	1.000	1.000	
0101250000	1AB	Parsley, turnip rooted	0.600000	1.000	1.000	
0101251000	1AB	Parsnip	0.600000	1.000	1.000	
0101251001	1AB	Parsnip-babyfood	0.600000	1.000	1.000	
0101314000	1AB	Radish, roots	0.600000	1.000	1.000	
0101316000	1AB	Radish, Oriental, roots	0.600000	1.000	1.000	
0101327000	1AB	Rutabaga	0.600000	1.000	1.000	
0101331000	1AB	Salsify, roots	0.600000	1.000	1.000	
0101388000	1AB	Turnip, roots	0.600000	1.000	1.000	
0103015000	1CD	Arrowroot, flour	4.000000	4.800	1.000	
0103015001	1CD	Arrowroot, flour-babyfood	4.000000	4.800	1.000	
0103017000	1CD	Artichoke, Jerusalem	4.000000	1.000	1.000	
0103082000	1CD	Cassava	4.000000	1.000	1.000	
0103082001	1CD	Cassava-babyfood	4.000000	1.000	1.000	
0103139000	1CD	Dasheen, corm	4.000000	1.000	1.000	
0103166000	1CD	Ginger	4.000000	1.000	1.000	
0103166001	1CD	Ginger-babyfood	4.000000	1.000	1.000	
0103167000	1CD	Ginger, dried	4.000000	4.800	1.000	
0103296000	1C	Potato, chips	4.000000	0.500	1.000	
0103297000	1C	Potato, dry (granules/ flakes)	4.000000	0.500	1.000	
0103297001	1C	Potato, dry (granules/ flakes)-b	4.000000	0.500	1.000	
0103298000	1C	Potato, flour	4.000000	0.500	1.000	
0103298001	1C	Potato, flour-babyfood	4.000000	0.500	1.000	
0103299000	1C	Potato, tuber, w/peel	4.000000	1.000	1.000	
0103299001	1C	Potato, tuber, w/peel-babyfood	4.000000	1.000	1.000	
0103300000	1C	Potato, tuber, w/o peel	4.000000	1.000	1.000	
0103300001	1C	Potato, tuber, w/o peel-babyfood	4.000000	1.000	1.000	
0103366000	1CD	Sweet potato	4.000000	1.000	1.000	
0103366001	1CD	Sweet potato-babyfood	4.000000	1.000	1.000	
0103371000	1CD	Tanier, corm	4.000000	1.000	1.000	
0103387000	1CD	Turmeric	4.000000	1.000	1.000	
0103406000	1CD	Yam, true	4.000000	1.000	1.000	
0103407000	1CD	Yam bean	4.000000	1.000	1.000	
0200051000	2	Beet, garden, tops	8.000000	1.000	1.000	
0200101000	2	Chicory, tops	8.000000	1.000	1.000	
0200140000	2	Dasheen, leaves	8.000000	1.000	1.000	
0200315000	2	Radish, tops	8.000000	1.000	1.000	
0200317000	2	Radish, Oriental, tops	8.000000	1.000	1.000	
0200332000	2	Salsify, tops	8.000000	1.000	1.000	
0301165000	3A	Garlic, bulb	0.200000	1.000	1.000	
0301165001	3A	Garlic, bulb-babyfood	0.200000	1.000	1.000	
0301237000	3A	Onion, bulb	0.200000	1.000	1.000	
0301237001	3A	Onion, bulb-babyfood	0.200000	1.000	1.000	
0301238000	3A	Onion, bulb, dried	0.200000	9.700	1.000	
0301238001	3A	Onion, bulb, dried-babyfood	0.200000	9.700	1.000	
0301338000	3A	Shallot, bulb	0.200000	1.000	1.000	

0302103000	3B	Chive, fresh leaves	9.000000	1.000	1.000
0302198000	3B	Leek	9.000000	1.000	1.000
0302239000	3B	Onion, green	9.000000	1.000	1.000
0302338500	3B	Shallot, fresh leaves	9.000000	1.000	1.000
0401018000	4A	Arugula	35.000000	1.000	1.000
0401133000	4A	Cress, garden	35.000000	1.000	1.000
0401134000	4A	Cress, upland	35.000000	1.000	1.000
0501061000	5A	Broccoli	2.000000	1.000	1.000
0501061001	5A	Broccoli-babyfood	2.000000	1.000	1.000
0501062000	5A	Broccoli, Chinese	35.000000	1.000	1.000
0501064000	5A	Brussels sprouts	2.000000	1.000	1.000
0501069000	5A	Cabbage	2.000000	1.000	1.000
0501071000	5A	Cabbage, Chinese, napa	2.000000	1.000	1.000
0501072000	5A	Cabbage, Chinese, mustard	2.000000	1.000	1.000
0501083000	5A	Cauliflower	2.000000	1.000	1.000
0501196000	5A	Kohlrabi	2.000000	1.000	1.000
0502063000	5B	Broccoli raab	35.000000	1.000	1.000
0502070000	5B	Cabbage, Chinese, bok choy	35.000000	1.000	1.000
0502117000	5B	Collards	35.000000	1.000	1.000
0502194000	5B	Kale	35.000000	1.000	1.000
0502229000	5B	Mustard greens	35.000000	1.000	1.000
0502318000	5B	Rape greens	35.000000	1.000	1.000
0502389000	5B	Turnip, greens	35.000000	1.000	1.000
0600347000	6	Soybean, seed	0.150000	1.000	1.000
0600349000	6	Soybean, soy milk	0.150000	1.000	1.000
0600349001	6	Soybean, soy milk-babyfood or in	0.150000	1.000	1.000
0600350000	6	Soybean, oil	0.150000	1.000	1.000
0600350001	6	Soybean, oil-babyfood	0.150000	1.000	1.000
0601349500	6AB	Soybean, vegetable	0.150000	1.000	1.000
0603030000	6C	Bean, black, seed	0.200000	1.000	1.000
0603032000	6C	Bean, broad, seed	0.200000	1.000	1.000
0603034000	6C	Bean, cowpea, seed	0.200000	1.000	1.000
0603035000	6C	Bean, great northern, seed	0.200000	1.000	1.000
0603036000	6C	Bean, kidney, seed	0.200000	1.000	1.000
0603038000	6C	Bean, lima, seed	0.200000	1.000	1.000
0603039000	6C	Bean, mung, seed	0.200000	1.000	1.000
0603040000	6C	Bean, navy, seed	0.200000	1.000	1.000
0603041000	6C	Bean, pink, seed	0.200000	1.000	1.000
0603042000	6C	Bean, pinto, seed	0.200000	1.000	1.000
0603098000	6C	Chickpea, seed	0.200000	1.000	1.000
0603098001	6C	Chickpea, seed-babyfood	0.200000	1.000	1.000
0603099000	6C	Chickpea, flour	0.200000	1.000	1.000
0603182000	6C	Guar, seed	0.200000	1.000	1.000
0603182001	6C	Guar, seed-babyfood	0.200000	1.000	1.000
0603203000	6C	Lentil, seed	0.200000	1.000	1.000
0603256000	6C	Pea, dry	0.200000	1.000	1.000
0603256001	6C	Pea, dry-babyfood	0.200000	1.000	1.000
0603258000	6C	Pea, pigeon, seed	0.200000	1.000	1.000
0603348000	6C	Soybean, flour	0.150000	2.200	1.000
0603348001	6C	Soybean, flour-babyfood	0.150000	2.200	1.000
0801374000	8A	Tomatillo	0.600000	1.000	1.000
0801375000	8A	Tomato	0.600000	1.000	1.000
0801375001	8A	Tomato-babyfood	0.600000	1.000	1.000
0801376000	8A	Tomato, paste	0.600000	1.600	1.000
0801376001	8A	Tomato, paste-babyfood	0.600000	1.600	1.000
0801377000	8A	Tomato, puree	0.600000	0.500	1.000
0801377001	8A	Tomato, puree-babyfood	0.600000	0.500	1.000
0801378000	8A	Tomato, dried	0.600000	14.300	1.000
0801378001	8A	Tomato, dried-babyfood	0.600000	14.300	1.000
0801379000	8A	Tomato, juice	0.600000	1.000	1.000
0801380000	8A	Tomato, Tree	0.600000	1.000	1.000
0802148000	8BC	Eggplant	0.600000	1.000	1.000
0802234000	8BC	Okra	0.600000	1.000	1.000
0802270000	8B	Pepper, bell	0.600000	1.000	1.000
0802270001	8B	Pepper, bell-babyfood	0.600000	1.000	1.000
0802271000	8B	Pepper, bell, dried	0.600000	13.500	1.000
0802271001	8B	Pepper, bell, dried-babyfood	0.600000	13.500	1.000
0802272000	8BC	Pepper, nonbell	0.600000	1.000	1.000
0802272001	8BC	Pepper, nonbell-babyfood	0.600000	1.000	1.000
0802273000	8BC	Pepper, nonbell, dried	0.600000	12.800	1.000
0901075000	9A	Cantaloupe	0.700000	1.000	1.000
0901187000	9A	Honeydew melon	0.700000	1.000	1.000
0901399000	9A	Watermelon	0.700000	1.000	1.000
0901400000	9A	Watermelon, juice	0.700000	1.000	1.000

0902021000	9B	Balsam pear	0.700000	1.000	1.000
0902088000	9B	Chayote, fruit	0.700000	1.000	1.000
0902102000	9B	Chinese waxgourd	0.700000	1.000	1.000
0902135000	9B	Cucumber	0.700000	1.000	1.000
0902308000	9B	Pumpkin	0.700000	1.000	1.000
0902309000	9B	Pumpkin, seed	0.700000	1.000	1.000
0902356000	9B	Squash, summer	0.700000	1.000	1.000
0902356001	9B	Squash, summer-babyfood	0.700000	1.000	1.000
0902357000	9B	Squash, winter	0.700000	1.000	1.000
0902357001	9B	Squash, winter-babyfood	0.700000	1.000	1.000
1001106000	10A	Citron	0.800000	1.000	1.000
1001107000	10A	Citrus hybrids	0.800000	1.000	1.000
1001108000	10A	Citrus, oil	25.000000	1.000	1.000
1001240000	10A	Orange	0.800000	1.000	1.000
1001241000	10A	Orange, juice	0.800000	0.100	1.000
1001241001	10A	Orange, juice-babyfood	0.800000	0.100	1.000
1001242000	10A	Orange, peel	0.800000	3.300	1.000
1001369000	10A	Tangerine	0.800000	1.000	1.000
1001370000	10A	Tangerine, juice	0.800000	0.100	1.000
1002197000	10B	Kumquat	0.800000	1.000	1.000
1002199000	10B	Lemon	0.800000	1.000	1.000
1002200000	10B	Lemon, juice	0.800000	0.100	1.000
1002200001	10B	Lemon, juice-babyfood	0.800000	0.100	1.000
1002201000	10B	Lemon, peel	0.800000	3.300	1.000
1002206000	10B	Lime	0.800000	1.000	1.000
1002207000	10B	Lime, juice	0.800000	0.100	1.000
1002207001	10B	Lime, juice-babyfood	0.800000	0.100	1.000
1003180000	10C	Grapefruit	0.800000	1.000	1.000
1003181000	10C	Grapefruit, juice	0.800000	0.100	1.000
1003307000	10C	Pummelo	0.800000	1.000	1.000
1100007000	11	Apple, fruit with peel	5.000000	1.000	1.000
1100008000	11	Apple, peeled fruit	5.000000	1.000	1.000
1100008001	11	Apple, peeled fruit-babyfood	5.000000	1.000	1.000
1100009000	11	Apple, dried	5.000000	8.000	1.000
1100009001	11	Apple, dried-babyfood	5.000000	8.000	1.000
1100010000	11	Apple, juice	5.000000	0.040	1.000
1100010001	11	Apple, juice-babyfood	5.000000	0.040	1.000
1100011000	11	Apple, sauce	5.000000	1.000	1.000
1100011001	11	Apple, sauce-babyfood	5.000000	1.000	1.000
1100129000	11	Crabapple	5.000000	1.000	1.000
1100173500	11	Goji berry	0.600000	1.000	1.000
1100210000	11	Loquat	5.000000	1.000	1.000
1100266000	11	Pear	5.000000	1.000	1.000
1100266001	11	Pear-babyfood	5.000000	1.000	1.000
1100267000	11	Pear, dried	5.000000	6.250	1.000
1100268000	11	Pear, juice	5.000000	0.040	1.000
1100268001	11	Pear, juice-babyfood	5.000000	0.040	1.000
1100310000	11	Quince	5.000000	1.000	1.000
1201090000	12A	Cherry	2.500000	1.000	1.000
1201090001	12A	Cherry-babyfood	2.500000	1.000	1.000
1201091000	12A	Cherry, juice	2.500000	1.500	1.000
1201091001	12A	Cherry, juice-babyfood	2.500000	1.500	1.000
1202012000	12B	Apricot	2.500000	1.000	1.000
1202012001	12B	Apricot-babyfood	2.500000	1.000	1.000
1202013000	12B	Apricot, dried	2.500000	6.000	1.000
1202014000	12B	Apricot, juice	2.500000	1.300	1.000
1202014001	12B	Apricot, juice-babyfood	2.500000	1.300	1.000
1202230000	12B	Nectarine	2.500000	1.000	1.000
1202260000	12B	Peach	2.500000	1.000	1.000
1202260001	12B	Peach-babyfood	2.500000	1.000	1.000
1202261000	12B	Peach, dried	2.500000	7.000	1.000
1202261001	12B	Peach, dried-babyfood	2.500000	7.000	1.000
1202262000	12B	Peach, juice	2.500000	1.300	1.000
1202262001	12B	Peach, juice-babyfood	2.500000	1.300	1.000
1203285000	12C	Plum	2.500000	1.000	1.000
1203285001	12C	Plum-babyfood	2.500000	1.000	1.000
1203286000	12C	Plum, prune, fresh	2.500000	1.000	1.000
1203286001	12C	Plum, prune, fresh-babyfood	2.500000	1.000	1.000
1203287000	12C	Plum, prune, dried	2.500000	2.600	1.000
1203287001	12C	Plum, prune, dried-babyfood	2.500000	2.600	1.000
1203288000	12C	Plum, prune, juice	2.500000	1.400	1.000
1203288001	12C	Plum, prune, juice-babyfood	2.500000	1.400	1.000
1302057000	13B	Blueberry	4.000000	1.000	1.000
1302057001	13B	Blueberry-babyfood	4.000000	1.000	1.000

1302136000	13B	Currant	4.000000	1.000	1.000
1302137000	13B	Currant, dried	4.000000	6.500	1.000
1302149000	13B	Elderberry	4.000000	1.000	1.000
1302174000	13B	Gooseberry	4.000000	1.000	1.000
1302191000	13B	Huckleberry	4.000000	1.000	1.000
1304175000	13D	Grape	3.000000	1.000	1.000
1304176000	13D	Grape, juice	3.000000	0.200	1.000
1304176001	13D	Grape, juice-babyfood	3.000000	0.200	1.000
1304179000	13D	Grape, wine and sherry	3.000000	1.200	1.000
1307130000	13G	Cranberry	0.600000	1.000	1.000
1307130001	13G	Cranberry-babyfood	0.600000	1.000	1.000
1307131000	13G	Cranberry, dried	0.600000	7.900	1.000
1307132000	13G	Cranberry, juice	0.600000	1.200	1.000
1307132001	13G	Cranberry, juice-babyfood	0.600000	1.200	1.000
1307359000	13G	Strawberry	2.500000	1.000	1.000
1307359001	13G	Strawberry-babyfood	2.500000	1.000	1.000
1307360000	13G	Strawberry, juice	2.500000	1.200	1.000
1307360001	13G	Strawberry, juice-babyfood	2.500000	1.200	1.000
1400003000	14	Almond	0.030000	1.000	1.000
1400003001	14	Almond-babyfood	0.030000	1.000	1.000
1400004000	14	Almond, oil	0.030000	2.800	1.000
1400004001	14	Almond, oil-babyfood	0.030000	2.800	1.000
1400059000	14	Brazil nut	0.030000	1.000	1.000
1400068000	14	Butternut	0.030000	1.000	1.000
1400081000	14	Cashew	0.030000	1.000	1.000
1400092000	14	Chestnut	0.030000	1.000	1.000
1400155000	14	Hazelnut	0.030000	1.000	1.000
1400156000	14	Hazelnut, oil	0.030000	1.800	1.000
1400185000	14	Hickory nut	0.030000	1.000	1.000
1400213000	14	Macadamia nut	0.030000	1.000	1.000
1400269000	14	Pecan	0.030000	1.000	1.000
1400278000	14	Pine nut	0.030000	1.000	1.000
1400282000	14	Pistachio	0.030000	1.000	1.000
1400391000	14	Walnut	0.030000	1.000	1.000
1500025000	15	Barley, pearled barley	0.100000	1.000	1.000
1500025001	15	Barley, pearled barley-babyfood	0.100000	1.000	1.000
1500026000	15	Barley, flour	0.100000	1.000	1.000
1500026001	15	Barley, flour-babyfood	0.100000	1.000	1.000
1500027000	15	Barley, bran	0.100000	1.000	1.000
1500127000	15	Corn, sweet	0.010000	1.000	1.000
1500127001	15	Corn, sweet-babyfood	0.010000	1.000	1.000
1500231000	15	Oat, bran	0.010000	7.700	1.000
1500232000	15	Oat, flour	0.010000	1.000	1.000
1500232001	15	Oat, flour-babyfood	0.010000	1.000	1.000
1500233000	15	Oat, groats/rolled oats	0.010000	1.000	1.000
1500233001	15	Oat, groats/rolled oats-babyfood	0.010000	1.000	1.000
1500323000	15	Rice, white	8.000000	1.000	1.000
1500323001	15	Rice, white-babyfood	8.000000	1.000	1.000
1500324000	15	Rice, brown	8.000000	1.250	1.000
1500324001	15	Rice, brown-babyfood	8.000000	1.250	1.000
1500325000	15	Rice, flour	8.000000	1.250	1.000
1500325001	15	Rice, flour-babyfood	8.000000	1.250	1.000
1500326000	15	Rice, bran	8.000000	1.000	1.000
1500326001	15	Rice, bran-babyfood	8.000000	1.000	1.000
1500328000	15	Rye, grain	0.010000	1.000	1.000
1500329000	15	Rye, flour	0.010000	1.000	1.000
1500381000	15	Triticale, flour	0.100000	1.000	1.000
1500381001	15	Triticale, flour-babyfood	0.100000	1.000	1.000
1500401000	15	Wheat, grain	0.100000	1.000	1.000
1500401001	15	Wheat, grain-babyfood	0.100000	1.000	1.000
1500402000	15	Wheat, flour	0.100000	1.000	1.000
1500402001	15	Wheat, flour-babyfood	0.100000	1.000	1.000
1500403000	15	Wheat, germ	0.100000	1.000	1.000
1500404000	15	Wheat, bran	0.100000	1.000	1.000
1500405000	15	Wild rice	8.000000	1.000	1.000
2001163000	20A	Flax seed, oil	0.150000	2.200	1.000
2001319000	20A	Rapeseed, oil	0.150000	1.000	1.000
2001319001	20A	Rapeseed, oil-babyfood	0.150000	1.000	1.000
2001336000	20A	Sesame, seed	0.150000	1.000	1.000
2001336001	20A	Sesame, seed-babyfood	0.150000	1.000	1.000
2001337000	20A	Sesame, oil	0.150000	1.000	1.000
2001337001	20A	Sesame, oil-babyfood	0.150000	1.000	1.000
2003114001	20C	Coconut, oil-babyfood	0.030000	2.900	1.000
2003128000	20C	Cottonseed, oil	0.400000	1.000	1.000

2003128001	20C	Cottonseed, oil-babyfood	0.400000	1.000	1.000
3100044000	31	Beef, meat	0.050000	1.000	1.000
3100044001	31	Beef, meat-babyfood	0.050000	1.000	1.000
3100045000	31	Beef, meat, dried	0.050000	1.920	1.000
3100046000	31	Beef, meat byproducts	0.100000	1.000	1.000
3100046001	31	Beef, meat byproducts-babyfood	0.100000	1.000	1.000
3100047000	31	Beef, fat	0.100000	1.000	1.000
3100047001	31	Beef, fat-babyfood	0.100000	1.000	1.000
3100048000	31	Beef, kidney	0.100000	1.000	1.000
3100049000	31	Beef, liver	0.700000	1.000	1.000
3100049001	31	Beef, liver-babyfood	0.700000	1.000	1.000
3200169000	32	Goat, meat	0.050000	1.000	1.000
3200170000	32	Goat, meat byproducts	0.100000	1.000	1.000
3200171000	32	Goat, fat	0.100000	1.000	1.000
3200172000	32	Goat, kidney	0.100000	1.000	1.000
3200173000	32	Goat, liver	0.700000	1.000	1.000
3300189000	33	Horse, meat	0.050000	1.000	1.000
3400290000	34	Pork, meat	0.050000	1.000	1.000
3400290001	34	Pork, meat-babyfood	0.050000	1.000	1.000
3400291000	34	Pork, skin	0.100000	1.000	1.000
3400292000	34	Pork, meat byproducts	0.100000	1.000	1.000
3400292001	34	Pork, meat byproducts-babyfood	0.100000	1.000	1.000
3400293000	34	Pork, fat	0.100000	1.000	1.000
3400293001	34	Pork, fat-babyfood	0.100000	1.000	1.000
3400294000	34	Pork, kidney	0.100000	1.000	1.000
3400295000	34	Pork, liver	0.700000	1.000	1.000
3500339000	35	Sheep, meat	0.050000	1.000	1.000
3500339001	35	Sheep, meat-babyfood	0.050000	1.000	1.000
3500340000	35	Sheep, meat byproducts	0.100000	1.000	1.000
3500341000	35	Sheep, fat	0.100000	1.000	1.000
3500341001	35	Sheep, fat-babyfood	0.100000	1.000	1.000
3500342000	35	Sheep, kidney	0.100000	1.000	1.000
3500343000	35	Sheep, liver	0.700000	1.000	1.000
3600222000	36	Milk, fat	0.030000	1.000	1.000
3600222001	36	Milk, fat-baby food/infant formu	0.030000	1.000	1.000
3600223000	36	Milk, nonfat solids	0.030000	1.000	1.000
3600223001	36	Milk, nonfat solids-baby food/in	0.030000	1.000	1.000
3600224000	36	Milk, water	0.030000	1.000	1.000
3600224001	36	Milk, water-babyfood/infant form	0.030000	1.000	1.000
3600225001	36	Milk, sugar (lactose)-baby food/	0.030000	1.000	1.000
7000145000	70	Egg, whole	0.020000	1.000	1.000
7000145001	70	Egg, whole-babyfood	0.020000	1.000	1.000
7000146000	70	Egg, white	0.020000	1.000	1.000
7000146001	70	Egg, white (solids)-babyfood	0.020000	1.000	1.000
7000147000	70	Egg, yolk	0.020000	1.000	1.000
7000147001	70	Egg, yolk-babyfood	0.020000	1.000	1.000
8601000000	86A	Water, direct, all sources	0.033400	1.000	1.000
8602000000	86B	Water, indirect, all sources	0.033400	1.000	1.000
9500016000	O	Artichoke, globe	1.500000	1.000	1.000
9500023000	O	Banana	0.200000	1.000	1.000
9500023001	O	Banana-babyfood	0.200000	1.000	1.000
9500024000	O	Banana, dried	0.200000	4.800	1.000
9500024001	O	Banana, dried-babyfood	0.200000	4.800	1.000
9500111000	O	Coconut, meat	0.030000	2.100	1.000
9500111001	O	Coconut, meat-babyfood	0.030000	2.100	1.000
9500112000	O	Coconut, dried	0.030000	1.000	1.000
9500113000	O	Coconut, milk	0.030000	4.000	1.000
9500114000	O	Coconut, oil	0.030000	2.900	1.000
9500177000	O	Grape, leaves	3.000000	1.000	1.000
9500178000	O	Grape, raisin	6.000000	1.000	1.000
9500183000	O	Guava	3.000000	1.000	1.000
9500183001	O	Guava-babyfood	3.000000	1.000	1.000
9500215000	O	Mango	0.900000	1.000	1.000
9500215001	O	Mango-babyfood	0.900000	1.000	1.000
9500216000	O	Mango, dried	0.900000	5.900	1.000
9500217000	O	Mango, juice	0.900000	2.000	1.000
9500217001	O	Mango, juice-babyfood	0.900000	2.000	1.000
9500245000	O	Papaya	0.600000	1.000	1.000
9500245001	O	Papaya-babyfood	0.600000	1.000	1.000
9500246000	O	Papaya, dried	0.600000	8.000	1.000
9500247000	O	Papaya, juice	0.600000	2.000	1.000
9500283000	O	Plantain	0.200000	1.000	1.000
9500284000	O	Plantain, dried	0.200000	4.800	1.000
9500372000	O	Tea, dried	15.000000	1.000	1.000

9500373000 O	Tea, instant	15.000000	1.000	1.000
9500398000 O	Watercress	35.000000	1.000	1.000

Attachment 2: DEEM-FCID Acute Exposure Estimates

Food plus Water

US EPA Ver. 3.18, 03-08-d
DEEM-FCID ACUTE Analysis for DIFENOCONAZOLE NHANES 2003-2008 2-Day
Residue file: 128847 Acute Food and Water without imports.R08
Adjustment factor #2 used.
Analysis Date: 09-17-2020/08:46:19 Residue file dated: 09-17-2020/08:34:25
RAC/FF intake summed over 24 hours
Run Comment: ""
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Summary calculations--per capita:

	95th Percentile Exposure	% aRfD	99th Percentile Exposure	% aRfD	99.9th Percentile Exposure	% aRfD
Total US Population:	0.042359	16.94	0.087471	34.99	0.165383	66.15
All Infants:	0.131936	52.77	0.198889	79.56	0.280104	112.04
Children 1-2:	0.112997	45.20	0.189517	75.81	0.427532	171.01
Children 3-5:	0.081013	32.41	0.125412	50.16	0.216502	86.60
Children 6-12:	0.052516	21.01	0.089927	35.97	0.148419	59.37
Youth 13-19:	0.027298	10.92	0.048915	19.57	0.125536	50.21
Adults 20-49:	0.030956	12.38	0.049720	19.89	0.104251	41.70
Adults 50-99:	0.030521	12.21	0.060338	24.14	0.129393	51.76
Female 13-49:	0.030193	12.08	0.047801	19.12	0.098422	39.37

Food Only

US EPA Ver. 3.18, 03-08-d
DEEM-FCID ACUTE Analysis for DIFENOCONAZOLE NHANES 2003-2008 2-Day
Residue file: 128847 Acute Food Only without imports.R08
Adjustment factor #2 used.
Analysis Date: 09-17-2020/08:42:50 Residue file dated: 09-17-2020/08:34:50
RAC/FF intake summed over 24 hours
Run Comment: ""
=====

Summary calculations--per capita:

	95th Percentile Exposure	% aRfD	99th Percentile Exposure	% aRfD	99.9th Percentile Exposure	% aRfD
Total US Population:	0.041547	16.62	0.086129	34.45	0.164465	65.79
All Infants:	0.130158	52.06	0.196231	78.49	0.278775	111.51
Children 1-2:	0.111916	44.77	0.186727	74.69	0.430008	172.00
Children 3-5:	0.080079	32.03	0.123190	49.28	0.214977	85.99
Children 6-12:	0.051597	20.64	0.087433	34.97	0.149299	59.72
Youth 13-19:	0.026752	10.70	0.046892	18.76	0.124515	49.81
Adults 20-49:	0.030214	12.09	0.048714	19.49	0.103534	41.41
Adults 50-99:	0.029575	11.83	0.059306	23.72	0.127903	51.16
Female 13-49:	0.029340	11.74	0.046426	18.57	0.097427	38.97

Attachment 3: DEEM-FCID Chronic Residue File

Filename: C:\Users\tmorton\OneDrive - Environmental Protection Agency (EPA)\DEEM Files\128847 Difenoconazole\Diffenoconazole 9E8814 Olive Black Pepper and DRA\128847 Chronic Tolerance and PCT Food and Water without imports.R08

Chemical: Difenoconazole

RfD(Chronic): .05 mg/kg bw/day NOEL(Chronic): 0 mg/kg bw/day

RfD(Acute): .25 mg/kg bw/day NOEL(Acute): 0 mg/kg bw/day

Date created/last modified: 08-10-2020/10:38:34 Program ver. 3.16, 03-08-d

EPA Code	Crop Grp	Commodity Name	Def Res (ppm)	Adj. Factors #1	Adj. Factors #2	Comment
0101050000	1AB	Beet, garden, roots	0.600000	1.000	1.000	
0101050001	1AB	Beet, garden, roots-babyfood	0.600000	1.000	1.000	
0101052000	1A	Beet, sugar	0.600000	1.000	0.200	
0101052001	1A	Beet, sugar-babyfood	0.600000	1.000	0.200	
0101053000	1A	Beet, sugar, molasses	0.600000	0.600	0.200	
0101053001	1A	Beet, sugar, molasses-babyfood	0.600000	0.600	0.200	
0101067000	1AB	Burdock	0.600000	1.000	1.000	
0101078000	1AB	Carrot	0.600000	1.000	0.025	
0101078001	1AB	Carrot-babyfood	0.600000	1.000	0.025	
0101079000	1AB	Carrot, juice	0.600000	1.400	0.025	
0101084000	1AB	Celeriac	0.600000	1.000	1.000	
0101100000	1AB	Chicory, roots	0.600000	1.000	1.000	
0101168000	1AB	Ginseng, dried	0.800000	1.000	1.000	
0101190000	1AB	Horseradish	0.600000	1.000	1.000	
0101250000	1AB	Parsley, turnip rooted	0.600000	1.000	1.000	
0101251000	1AB	Parsnip	0.600000	1.000	1.000	
0101251001	1AB	Parsnip-babyfood	0.600000	1.000	1.000	
0101314000	1AB	Radish, roots	0.600000	1.000	1.000	
0101316000	1AB	Radish, Oriental, roots	0.600000	1.000	1.000	
0101327000	1AB	Rutabaga	0.600000	1.000	1.000	
0101331000	1AB	Salsify, roots	0.600000	1.000	1.000	
0101388000	1AB	Turnip, roots	0.600000	1.000	1.000	
0103015000	1CD	Arrowroot, flour	4.000000	4.800	1.000	
0103015001	1CD	Arrowroot, flour-babyfood	4.000000	4.800	1.000	
0103017000	1CD	Artichoke, Jerusalem	4.000000	1.000	0.150	
0103082000	1CD	Cassava	4.000000	1.000	1.000	
0103082001	1CD	Cassava-babyfood	4.000000	1.000	1.000	
0103139000	1CD	Dasheen, corm	4.000000	1.000	1.000	
0103166000	1CD	Ginger	4.000000	1.000	1.000	
0103166001	1CD	Ginger-babyfood	4.000000	1.000	1.000	
0103167000	1CD	Ginger, dried	4.000000	4.800	1.000	
0103296000	1C	Potato, chips	4.000000	0.500	0.150	
0103297000	1C	Potato, dry (granules/ flakes)	4.000000	0.500	0.150	
0103297001	1C	Potato, dry (granules/ flakes)-b	4.000000	0.500	0.150	
0103298000	1C	Potato, flour	4.000000	0.500	0.150	
0103298001	1C	Potato, flour-babyfood	4.000000	0.500	0.150	
0103299000	1C	Potato, tuber, w/peel	4.000000	1.000	0.150	
0103299001	1C	Potato, tuber, w/peel-babyfood	4.000000	1.000	0.150	
0103300000	1C	Potato, tuber, w/o peel	4.000000	1.000	0.150	
0103300001	1C	Potato, tuber, w/o peel-babyfood	4.000000	1.000	0.150	
0103366000	1CD	Sweet potato	4.000000	1.000	1.000	
0103366001	1CD	Sweet potato-babyfood	4.000000	1.000	1.000	
0103371000	1CD	Tanier, corm	4.000000	1.000	1.000	
0103387000	1CD	Turmeric	4.000000	1.000	1.000	
0103406000	1CD	Yam, true	4.000000	1.000	1.000	
0103407000	1CD	Yam bean	4.000000	1.000	1.000	
0200051000	2	Beet, garden, tops	8.000000	1.000	1.000	
0200101000	2	Chicory, tops	8.000000	1.000	1.000	
0200140000	2	Dasheen, leaves	8.000000	1.000	1.000	
0200315000	2	Radish, tops	8.000000	1.000	1.000	
0200317000	2	Radish, Oriental, tops	8.000000	1.000	1.000	
0200332000	2	Salsify, tops	8.000000	1.000	1.000	
0301165000	3A	Garlic, bulb	0.200000	1.000	0.050	
0301165001	3A	Garlic, bulb-babyfood	0.200000	1.000	0.050	
0301237000	3A	Onion, bulb	0.200000	1.000	0.050	
0301237001	3A	Onion, bulb-babyfood	0.200000	1.000	0.050	
0301238000	3A	Onion, bulb, dried	0.200000	9.700	0.050	
0301238001	3A	Onion, bulb, dried-babyfood	0.200000	9.700	0.050	
0301338000	3A	Shallot, bulb	0.200000	1.000	1.000	

0302103000	3B	Chive, fresh leaves	9.000000	1.000	1.000
0302198000	3B	Leek	9.000000	1.000	1.000
0302239000	3B	Onion, green	9.000000	1.000	0.050
0302338500	3B	Shallot, fresh leaves	9.000000	1.000	1.000
0401018000	4A	Arugula	35.000000	1.000	1.000
0401133000	4A	Cress, garden	35.000000	1.000	1.000
0401134000	4A	Cress, upland	35.000000	1.000	1.000
0501061000	5A	Broccoli	2.000000	1.000	0.025
0501061001	5A	Broccoli-babyfood	2.000000	1.000	1.000
0501062000	5A	Broccoli, Chinese	35.000000	1.000	1.000
0501064000	5A	Brussels sprouts	2.000000	1.000	1.000
0501069000	5A	Cabbage	2.000000	1.000	0.100
0501071000	5A	Cabbage, Chinese, napa	2.000000	1.000	1.000
0501072000	5A	Cabbage, Chinese, mustard	2.000000	1.000	1.000
0501083000	5A	Cauliflower	2.000000	1.000	0.025
0501196000	5A	Kohlrabi	2.000000	1.000	1.000
0502063000	5B	Broccoli raab	35.000000	1.000	1.000
0502070000	5B	Cabbage, Chinese, bok choy	35.000000	1.000	1.000
0502117000	5B	Collards	35.000000	1.000	1.000
0502194000	5B	Kale	35.000000	1.000	1.000
0502229000	5B	Mustard greens	35.000000	1.000	1.000
0502318000	5B	Rape greens	35.000000	1.000	1.000
0502389000	5B	Turnip, greens	35.000000	1.000	1.000
0600347000	6	Soybean, seed	0.150000	1.000	0.025
0600349000	6	Soybean, soy milk	0.150000	1.000	0.025
0600349001	6	Soybean, soy milk-babyfood or in	0.150000	1.000	0.025
0600350000	6	Soybean, oil	0.150000	1.000	0.025
0600350001	6	Soybean, oil-babyfood	0.150000	1.000	0.025
0601349500	6AB	Soybean, vegetable	0.150000	1.000	0.025
0603030000	6C	Bean, black, seed	0.200000	1.000	1.000
0603032000	6C	Bean, broad, seed	0.200000	1.000	1.000
0603034000	6C	Bean, cowpea, seed	0.200000	1.000	1.000
0603035000	6C	Bean, great northern, seed	0.200000	1.000	1.000
0603036000	6C	Bean, kidney, seed	0.200000	1.000	1.000
0603038000	6C	Bean, lima, seed	0.200000	1.000	1.000
0603039000	6C	Bean, mung, seed	0.200000	1.000	1.000
0603040000	6C	Bean, navy, seed	0.200000	1.000	1.000
0603041000	6C	Bean, pink, seed	0.200000	1.000	1.000
0603042000	6C	Bean, pinto, seed	0.200000	1.000	1.000
0603098000	6C	Chickpea, seed	0.200000	1.000	1.000
0603098001	6C	Chickpea, seed-babyfood	0.200000	1.000	1.000
0603099000	6C	Chickpea, flour	0.200000	1.000	1.000
0603182000	6C	Guar, seed	0.200000	1.000	1.000
0603182001	6C	Guar, seed-babyfood	0.200000	1.000	1.000
0603203000	6C	Lentil, seed	0.200000	1.000	1.000
0603256000	6C	Pea, dry	0.200000	1.000	1.000
0603256001	6C	Pea, dry-babyfood	0.200000	1.000	1.000
0603258000	6C	Pea, pigeon, seed	0.200000	1.000	1.000
0603348000	6C	Soybean, flour	0.150000	2.200	0.025
0603348001	6C	Soybean, flour-babyfood	0.150000	2.200	0.025
0801374000	8A	Tomatillo	0.600000	1.000	0.350
0801375000	8A	Tomato	0.600000	1.000	0.350
0801375001	8A	Tomato-babyfood	0.600000	1.000	0.350
0801376000	8A	Tomato, paste	0.600000	1.600	0.350
0801376001	8A	Tomato, paste-babyfood	0.600000	1.600	0.350
0801377000	8A	Tomato, puree	0.600000	0.500	0.350
0801377001	8A	Tomato, puree-babyfood	0.600000	0.500	0.350
0801378000	8A	Tomato, dried	0.600000	14.300	0.350
0801378001	8A	Tomato, dried-babyfood	0.600000	14.300	0.350
0801379000	8A	Tomato, juice	0.600000	1.000	0.350
0801380000	8A	Tomato, Tree	0.600000	1.000	0.350
0802148000	8BC	Eggplant	0.600000	1.000	1.000
0802234000	8BC	Okra	0.600000	1.000	1.000
0802270000	8B	Pepper, bell	0.600000	1.000	0.100
0802270001	8B	Pepper, bell-babyfood	0.600000	1.000	0.100
0802271000	8B	Pepper, bell, dried	0.600000	13.500	0.100
0802271001	8B	Pepper, bell, dried-babyfood	0.600000	13.500	0.100
0802272000	8BC	Pepper, nonbell	0.600000	1.000	0.100
0802272001	8BC	Pepper, nonbell-babyfood	0.600000	1.000	0.100
0802273000	8BC	Pepper, nonbell, dried	0.600000	12.800	0.100
0901075000	9A	Cantaloupe	0.700000	1.000	0.025
0901187000	9A	Honeydew melon	0.700000	1.000	1.000
0901399000	9A	Watermelon	0.700000	1.000	0.100
0901400000	9A	Watermelon, juice	0.700000	1.000	0.100

0902021000	9B	Balsam pear	0.700000	1.000	1.000
0902088000	9B	Chayote, fruit	0.700000	1.000	1.000
0902102000	9B	Chinese waxgourd	0.700000	1.000	1.000
0902135000	9B	Cucumber	0.700000	1.000	0.050
0902308000	9B	Pumpkin	0.700000	1.000	0.050
0902309000	9B	Pumpkin, seed	0.700000	1.000	0.050
0902356000	9B	Squash, summer	0.700000	1.000	0.050
0902356001	9B	Squash, summer-babyfood	0.700000	1.000	0.050
0902357000	9B	Squash, winter	0.700000	1.000	0.050
0902357001	9B	Squash, winter-babyfood	0.700000	1.000	0.050
1001106000	10A	Citron	0.800000	1.000	1.000
1001107000	10A	Citrus hybrids	0.800000	1.000	1.000
1001108000	10A	Citrus, oil	25.000000	1.000	1.000
1001240000	10A	Orange	0.800000	1.000	0.050
1001241000	10A	Orange, juice	0.800000	0.100	0.050
1001241001	10A	Orange, juice-babyfood	0.800000	0.100	0.050
1001242000	10A	Orange, peel	0.800000	3.300	0.050
1001369000	10A	Tangerine	0.800000	1.000	0.050
1001370000	10A	Tangerine, juice	0.800000	0.100	0.050
1002197000	10B	Kumquat	0.800000	1.000	1.000
1002199000	10B	Lemon	0.800000	1.000	0.050
1002200000	10B	Lemon, juice	0.800000	0.100	0.050
1002200001	10B	Lemon, juice-babyfood	0.800000	0.100	0.050
1002201000	10B	Lemon, peel	0.800000	3.300	0.050
1002206000	10B	Lime	0.800000	1.000	1.000
1002207000	10B	Lime, juice	0.800000	0.100	1.000
1002207001	10B	Lime, juice-babyfood	0.800000	0.100	1.000
1003180000	10C	Grapefruit	0.800000	1.000	0.100
1003181000	10C	Grapefruit, juice	0.800000	0.100	0.100
1003307000	10C	Pummelo	0.800000	1.000	1.000
1100007000	11	Apple, fruit with peel	5.000000	1.000	0.200
1100008000	11	Apple, peeled fruit	5.000000	1.000	0.200
1100008001	11	Apple, peeled fruit-babyfood	5.000000	1.000	0.200
1100009000	11	Apple, dried	5.000000	8.000	0.200
1100009001	11	Apple, dried-babyfood	5.000000	8.000	0.200
1100010000	11	Apple, juice	5.000000	0.040	0.200
1100010001	11	Apple, juice-babyfood	5.000000	0.040	0.200
1100011000	11	Apple, sauce	5.000000	1.000	0.200
1100011001	11	Apple, sauce-babyfood	5.000000	1.000	0.200
1100129000	11	Crabapple	5.000000	1.000	1.000
1100173500	11	Goji berry	0.600000	1.000	1.000
1100210000	11	Loquat	5.000000	1.000	1.000
1100266000	11	Pear	5.000000	1.000	0.100
1100266001	11	Pear-babyfood	5.000000	1.000	0.100
1100267000	11	Pear, dried	5.000000	6.250	0.100
1100268000	11	Pear, juice	5.000000	0.040	0.100
1100268001	11	Pear, juice-babyfood	5.000000	0.040	0.100
1100310000	11	Quince	5.000000	1.000	1.000
1201090000	12A	Cherry	2.500000	1.000	0.025
1201090001	12A	Cherry-babyfood	2.500000	1.000	0.025
1201091000	12A	Cherry, juice	2.500000	1.500	0.025
1201091001	12A	Cherry, juice-babyfood	2.500000	1.500	0.025
1202012000	12B	Apricot	2.500000	1.000	0.100
1202012001	12B	Apricot-babyfood	2.500000	1.000	0.100
1202013000	12B	Apricot, dried	2.500000	6.000	0.100
1202014000	12B	Apricot, juice	2.500000	1.300	0.100
1202014001	12B	Apricot, juice-babyfood	2.500000	1.300	0.100
1202230000	12B	Nectarine	2.500000	1.000	1.000
1202260000	12B	Peach	2.500000	1.000	0.050
1202260001	12B	Peach-babyfood	2.500000	1.000	0.050
1202261000	12B	Peach, dried	2.500000	7.000	0.050
1202261001	12B	Peach, dried-babyfood	2.500000	7.000	0.050
1202262000	12B	Peach, juice	2.500000	1.300	0.050
1202262001	12B	Peach, juice-babyfood	2.500000	1.300	0.050
1203285000	12C	Plum	2.500000	1.000	0.050
1203285001	12C	Plum-babyfood	2.500000	1.000	0.050
1203286000	12C	Plum, prune, fresh	2.500000	1.000	0.050
1203286001	12C	Plum, prune, fresh-babyfood	2.500000	1.000	0.050
1203287000	12C	Plum, prune, dried	2.500000	2.600	0.050
1203287001	12C	Plum, prune, dried-babyfood	2.500000	2.600	0.050
1203288000	12C	Plum, prune, juice	2.500000	1.400	0.050
1203288001	12C	Plum, prune, juice-babyfood	2.500000	1.400	0.050
1302057000	13B	Blueberry	4.000000	1.000	0.100
1302057001	13B	Blueberry-babyfood	4.000000	1.000	0.100

1302136000	13B	Currant	4.000000	1.000	1.000
1302137000	13B	Currant, dried	4.000000	6.500	1.000
1302149000	13B	Elderberry	4.000000	1.000	1.000
1302174000	13B	Gooseberry	4.000000	1.000	1.000
1302191000	13B	Huckleberry	4.000000	1.000	1.000
1304175000	13D	Grape	3.000000	1.000	0.250
1304176000	13D	Grape, juice	3.000000	0.200	0.250
1304176001	13D	Grape, juice-babyfood	3.000000	0.200	0.250
1304179000	13D	Grape, wine and sherry	3.000000	1.200	0.150
1307130000	13G	Cranberry	0.600000	1.000	1.000
1307130001	13G	Cranberry-babyfood	0.600000	1.000	1.000
1307131000	13G	Cranberry, dried	0.600000	7.900	1.000
1307132000	13G	Cranberry, juice	0.600000	1.200	1.000
1307132001	13G	Cranberry, juice-babyfood	0.600000	1.200	1.000
1307359000	13G	Strawberry	2.500000	1.000	0.025
1307359001	13G	Strawberry-babyfood	2.500000	1.000	0.025
1307360000	13G	Strawberry, juice	2.500000	1.200	0.025
1307360001	13G	Strawberry, juice-babyfood	2.500000	1.200	0.025
1400003000	14	Almond	0.030000	1.000	0.150
1400003001	14	Almond-babyfood	0.030000	1.000	0.150
1400004000	14	Almond, oil	0.030000	2.800	0.150
1400004001	14	Almond, oil-babyfood	0.030000	2.800	0.150
1400059000	14	Brazil nut	0.030000	1.000	1.000
1400068000	14	Butternut	0.030000	1.000	1.000
1400081000	14	Cashew	0.030000	1.000	1.000
1400092000	14	Chestnut	0.030000	1.000	1.000
1400155000	14	Hazelnut	0.030000	1.000	0.025
1400156000	14	Hazelnut, oil	0.030000	1.800	0.025
1400185000	14	Hickory nut	0.030000	1.000	1.000
1400213000	14	Macadamia nut	0.030000	1.000	1.000
1400269000	14	Pecan	0.030000	1.000	0.050
1400278000	14	Pine nut	0.030000	1.000	1.000
1400282000	14	Pistachio	0.030000	1.000	0.050
1400391000	14	Walnut	0.030000	1.000	0.050
1500025000	15	Barley, pearled barley	0.100000	1.000	1.000
1500025001	15	Barley, pearled barley-babyfood	0.100000	1.000	1.000
1500026000	15	Barley, flour	0.100000	1.000	1.000
1500026001	15	Barley, flour-babyfood	0.100000	1.000	1.000
1500027000	15	Barley, bran	0.100000	1.000	1.000
1500127000	15	Corn, sweet	0.010000	1.000	1.000
1500127001	15	Corn, sweet-babyfood	0.010000	1.000	1.000
1500231000	15	Oat, bran	0.010000	7.700	1.000
1500232000	15	Oat, flour	0.010000	1.000	1.000
1500232001	15	Oat, flour-babyfood	0.010000	1.000	1.000
1500233000	15	Oat, groats/rolled oats	0.010000	1.000	1.000
1500233001	15	Oat, groats/rolled oats-babyfood	0.010000	1.000	1.000
1500323000	15	Rice, white	8.000000	1.000	1.000
1500323001	15	Rice, white-babyfood	8.000000	1.000	1.000
1500324000	15	Rice, brown	8.000000	1.250	1.000
1500324001	15	Rice, brown-babyfood	8.000000	1.250	1.000
1500325000	15	Rice, flour	8.000000	1.250	1.000
1500325001	15	Rice, flour-babyfood	8.000000	1.250	1.000
1500326000	15	Rice, bran	8.000000	1.000	1.000
1500326001	15	Rice, bran-babyfood	8.000000	1.000	1.000
1500328000	15	Rye, grain	0.010000	1.000	1.000
1500329000	15	Rye, flour	0.010000	1.000	1.000
1500381000	15	Triticale, flour	0.100000	1.000	1.000
1500381001	15	Triticale, flour-babyfood	0.100000	1.000	1.000
1500401000	15	Wheat, grain	0.100000	1.000	0.100
1500401001	15	Wheat, grain-babyfood	0.100000	1.000	0.100
1500402000	15	Wheat, flour	0.100000	1.000	0.100
1500402001	15	Wheat, flour-babyfood	0.100000	1.000	0.100
1500403000	15	Wheat, germ	0.100000	1.000	0.100
1500404000	15	Wheat, bran	0.100000	1.000	0.100
1500405000	15	Wild rice	8.000000	1.000	1.000
2001163000	20A	Flax seed, oil	0.150000	2.200	1.000
2001319000	20A	Rapeseed, oil	0.150000	1.000	1.000
2001319001	20A	Rapeseed, oil-babyfood	0.150000	1.000	1.000
2001336000	20A	Sesame, seed	0.150000	1.000	1.000
2001336001	20A	Sesame, seed-babyfood	0.150000	1.000	1.000
2001337000	20A	Sesame, oil	0.150000	1.000	1.000
2001337001	20A	Sesame, oil-babyfood	0.150000	1.000	1.000
2003114001	20C	Coconut, oil-babyfood	0.030000	2.900	1.000
2003128000	20C	Cottonseed, oil	0.400000	1.000	1.000

2003128001	20C	Cottonseed, oil-babyfood	0.400000	1.000	1.000
3100044000	31	Beef, meat	0.050000	1.000	1.000
3100044001	31	Beef, meat-babyfood	0.050000	1.000	1.000
3100045000	31	Beef, meat, dried	0.050000	1.920	1.000
3100046000	31	Beef, meat byproducts	0.100000	1.000	1.000
3100046001	31	Beef, meat byproducts-babyfood	0.100000	1.000	1.000
3100047000	31	Beef, fat	0.100000	1.000	1.000
3100047001	31	Beef, fat-babyfood	0.100000	1.000	1.000
3100048000	31	Beef, kidney	0.100000	1.000	1.000
3100049000	31	Beef, liver	0.700000	1.000	1.000
3100049001	31	Beef, liver-babyfood	0.700000	1.000	1.000
3200169000	32	Goat, meat	0.050000	1.000	1.000
3200170000	32	Goat, meat byproducts	0.100000	1.000	1.000
3200171000	32	Goat, fat	0.100000	1.000	1.000
3200172000	32	Goat, kidney	0.100000	1.000	1.000
3200173000	32	Goat, liver	0.700000	1.000	1.000
3300189000	33	Horse, meat	0.050000	1.000	1.000
3400290000	34	Pork, meat	0.050000	1.000	1.000
3400290001	34	Pork, meat-babyfood	0.050000	1.000	1.000
3400291000	34	Pork, skin	0.100000	1.000	1.000
3400292000	34	Pork, meat byproducts	0.100000	1.000	1.000
3400292001	34	Pork, meat byproducts-babyfood	0.100000	1.000	1.000
3400293000	34	Pork, fat	0.100000	1.000	1.000
3400293001	34	Pork, fat-babyfood	0.100000	1.000	1.000
3400294000	34	Pork, kidney	0.100000	1.000	1.000
3400295000	34	Pork, liver	0.700000	1.000	1.000
3500339000	35	Sheep, meat	0.050000	1.000	1.000
3500339001	35	Sheep, meat-babyfood	0.050000	1.000	1.000
3500340000	35	Sheep, meat byproducts	0.100000	1.000	1.000
3500341000	35	Sheep, fat	0.100000	1.000	1.000
3500341001	35	Sheep, fat-babyfood	0.100000	1.000	1.000
3500342000	35	Sheep, kidney	0.100000	1.000	1.000
3500343000	35	Sheep, liver	0.700000	1.000	1.000
3600222000	36	Milk, fat	0.030000	1.000	1.000
3600222001	36	Milk, fat-baby food/infant formula	0.030000	1.000	1.000
3600223000	36	Milk, nonfat solids	0.030000	1.000	1.000
3600223001	36	Milk, nonfat solids-baby food/in	0.030000	1.000	1.000
3600224000	36	Milk, water	0.030000	1.000	1.000
3600224001	36	Milk, water-babyfood/infant form	0.030000	1.000	1.000
3600225001	36	Milk, sugar (lactose)-baby food/	0.030000	1.000	1.000
7000145000	70	Egg, whole	0.020000	1.000	1.000
7000145001	70	Egg, whole-babyfood	0.020000	1.000	1.000
7000146000	70	Egg, white	0.020000	1.000	1.000
7000146001	70	Egg, white (solids)-babyfood	0.020000	1.000	1.000
7000147000	70	Egg, yolk	0.020000	1.000	1.000
7000147001	70	Egg, yolk-babyfood	0.020000	1.000	1.000
8601000000	86A	Water, direct, all sources	0.027400	1.000	1.000
8602000000	86B	Water, indirect, all sources	0.027400	1.000	1.000
9500016000	O	Artichoke, globe	1.500000	1.000	0.150
9500023000	O	Banana	0.200000	1.000	1.000
9500023001	O	Banana-babyfood	0.200000	1.000	1.000
9500024000	O	Banana, dried	0.200000	4.800	1.000
9500024001	O	Banana, dried-babyfood	0.200000	4.800	1.000
9500111000	O	Coconut, meat	0.030000	2.100	1.000
9500111001	O	Coconut, meat-babyfood	0.030000	2.100	1.000
9500112000	O	Coconut, dried	0.030000	1.000	1.000
9500113000	O	Coconut, milk	0.030000	4.000	1.000
9500114000	O	Coconut, oil	0.030000	2.900	1.000
9500177000	O	Grape, leaves	3.000000	1.000	0.250
9500178000	O	Grape, raisin	6.000000	1.000	0.050
9500183000	O	Guava	3.000000	1.000	1.000
9500183001	O	Guava-babyfood	3.000000	1.000	1.000
9500215000	O	Mango	0.900000	1.000	1.000
9500215001	O	Mango-babyfood	0.900000	1.000	1.000
9500216000	O	Mango, dried	0.900000	5.900	1.000
9500217000	O	Mango, juice	0.900000	2.000	1.000
9500217001	O	Mango, juice-babyfood	0.900000	2.000	1.000
9500245000	O	Papaya	0.600000	1.000	1.000
9500245001	O	Papaya-babyfood	0.600000	1.000	1.000
9500246000	O	Papaya, dried	0.600000	8.000	1.000
9500247000	O	Papaya, juice	0.600000	2.000	1.000
9500283000	O	Plantain	0.200000	1.000	1.000
9500284000	O	Plantain, dried	0.200000	4.800	1.000
9500372000	O	Tea, dried	15.000000	1.000	1.000

9500373000 O	Tea, instant	15.000000	1.000	1.000
9500398000 O	Watercress	35.000000	1.000	1.000

Attachment 4: DEEM-FCID Chronic Exposure Estimates

Food plus Water

US EPA Ver. 3.16, 03-08-d
DEEM-FCID Chronic analysis for DIFENOCONAZOLE NHANES 2003-2008 2-day
Residue file name: C:\Users\tmorton\OneDrive - Environmental Protection Agency (EPA)\DEEM
Files\128847 Difenoconazole\Diffenoconazole 9E8814 Olive Black Pepper and DRA\128847 Chronic
Tolerance and PCT Food and Water without imports.R08

Adjustment factor #2 used.

Analysis Date 09-17-2020/08:39:13 Residue file dated: 09-17-2020/08:36:44
Reference dose (RfD, Chronic) = .05 mg/kg bw/day

Total exposure by population subgroup

Population Subgroup	mg/kg body wt/day	Total Exposure	Percent of Rfd
Total US Population	0.005621		11.2%
Hispanic	0.006403		12.8%
Non-Hisp-White	0.004703		9.4%
Non-Hisp-Black	0.007562		15.1%
Non-Hisp-Other	0.011289		22.6%
Nursing Infants	0.012334		24.7%
Non-Nursing Infants	0.021997		44.0%
Female 13+ PREG	0.004739		9.5%
Children 1-6	0.011782		23.6%
Children 7-12	0.006103		12.2%
Male 13-19	0.003876		7.8%
Female 13-19/NP	0.003733		7.5%
Male 20+	0.005233		10.5%
Female 20+/NP	0.004493		9.0%
Seniors 55+	0.004491		9.0%
All Infants	0.019013		38.0%
Female 13-50	0.004284		8.6%
Children 1-2	0.014993		30.0%
Children 3-5	0.010602		21.2%
Children 6-12	0.006441		12.9%
Youth 13-19	0.003797		7.6%
Adults 20-49	0.004948		9.9%
Adults 50-99	0.004707		9.4%
Female 13-49	0.004297		8.6%

Food Only

US EPA Ver. 3.16, 03-08-d
DEEM-FCID Chronic analysis for DIFENOCONAZOLE NHANES 2003-2008 2-day
Residue file name: C:\Users\tmorton\OneDrive - Environmental Protection Agency (EPA)\DEEM
Files\128847 Difenoconazole\Difenoconazole 9E8814 Olive Black Pepper and DRA\128847 Chronic
Tolerance and PCT Food Only without imports.R08

Adjustment factor #2 used.

Analysis Date 09-17-2020/08:38:45 Residue file dated: 09-17-2020/08:37:52
Reference dose (RfD, Chronic) = .05 mg/kg bw/day

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Total exposure by population subgroup
=====

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
Total US Population	0.005047	10.1%
Hispanic	0.005855	11.7%
Non-Hisp-White	0.004113	8.2%
Non-Hisp-Black	0.007089	14.2%
Non-Hisp-Other	0.010628	21.3%
Nursing Infants	0.011815	23.6%
Non-Nursing Infants	0.020088	40.2%
Female 13+ PREG	0.004199	8.4%
Children 1-6	0.011048	22.1%
Children 7-12	0.005625	11.2%
Male 13-19	0.003482	7.0%
Female 13-19/NP	0.003291	6.6%
Male 20+	0.004699	9.4%
Female 20+/NP	0.003890	7.8%
Seniors 55+	0.003936	7.9%
All Infants	0.017534	35.1%
Female 13-50	0.003713	7.4%
Children 1-2	0.014165	28.3%
Children 3-5	0.009905	19.8%
Children 6-12	0.005938	11.9%
Youth 13-19	0.003378	6.8%
Adults 20-49	0.004376	8.8%
Adults 50-99	0.004141	8.3%
Female 13-49	0.003726	7.5%

Attachment 5: Percent Crop Treated Memorandum**Screening Level Estimates of Agricultural Uses of Difenoconazole (128847)**

Sorted Alphabetically

Reporting Years: 2008-2017

3 June 2019

	Crop	Annual Average	Percent Crop Treated	
		Lbs. A.I. Applied	Average	Maximum
1	Almonds	20,000	15	40
2	Apples	7,000	20	40
3	Apricots	<500	10	15
4	Artichoke	<500	15	15
5	Blueberry	600	10	6
6	Broccoli	<500	<2.5	<2.5
7	Brussels Sprouts *	<500	NC	NC
8	Cabbage	900	10	25
9	Cantaloupes	<500	<2.5	5
10	Carrots	<500	<2.5	10
11	Cauliflower	<500	<2.5	<2.5
12	Cherries	<500	<2.5	5
13	Cucumbers	700	5	10
14	Garlic	<500	5	15
15	Grapefruit	1,000	10	30
16	Grapes, Raisin	2,000	5	15
17	Grapes, Table	4,000	25	45
18	Grapes, Wine	10,000	15	30
19	Hazelnuts	<500	<2.5	5
20	Lemons	<500	5	5
21	Nectarines *	<500	NC	NC
22	Onions	2,000	5	15
23	Oranges	4,000	5	15
24	Peaches	600	5	15
25	Pears	500	10	40
26	Pecans	3,000	5	10
27	Peppers	1,000	10	25
28	Pistachios	2,000	5	15
29	Plums/Prunes	800	5	15
30	Potatoes	30,000	15	30
31	Pumpkins	600	5	15
32	Soybeans	100,000	<2.5	<2.5

33	Squash	500	5	15
34	Strawberries	<500	<2.5	5
35	Sugar Beets	30,000	20	35
36	Tangerines	<500	5	10
37	Tomatoes	10,000	35	50
38	Walnuts	1,000	5	10
39	Watermelons	2,000	10	20
40	Wheat, Spring (seed treatment)	20,000	10	20
41	Wheat, Winter (seed treatment)	40,000	10	15

All numbers are rounded to one significant digit, except those over 1 million, which are rounded to two significant digits.

<500: less than 500 pounds of active ingredients.

<2.5: less than 2.5 percent of crop is treated.

<1: less than 1 percent of crop is treated.

* Based on CalPUR data only (80% or more of U.S. acres grown are in California)

NC: not calculated, only pounds AI available. Due to reporting inconsistencies across CA counties PCTs calculated from CalPUR data are being withheld. PCTs for specific California crops and time periods may be available upon request, subject to availability and data quality considerations.

SLUA data sources include:

USDA-NASS (United States Department of Agriculture's National Agricultural Statistics Service)

Agricultural Market Research Data

California DPR's (Department of Pesticide Regulation) Pesticide Information Portal (CalPIP) Pesticide Use Reporting (CalPUR)

These results reflect amalgamated data developed by the Agency and are releasable to the public.